

IN THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and the applicant and/or assignee reserves the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) An apparatus ~~with a combination of a point light source and a single lens~~, comprising:
 - a point light source;
 - a photodetector; and
 - a lens, positioned in the same side of said point light source and said photodetector, said lens capable of focusing in order that a light emitting from said point light source is focused onto a target area of an object through said lens, and capable of focusing a reflected light from said target area of said object is focused onto said photodetector through said lens; and
 - wherein said object comprises a test strip comprising a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source; and
 - wherein said point light source is capable of radiating a light with a first wavelength and a light with a second wavelength, said tested solution contained in said light-absorbing area of said test strip is capable of absorbing said light with the first wavelength, wherein a sampling amount of said tested solution is determined in accordance with the reflectance of said light with the first wavelength from said light-absorbing area, and said light-absorbing area is capable of occurring in response to said specific component of said tested solution and is capable of absorbing said light with the second wavelength, wherein a content of said specific component is

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determined in accordance with the reflectance of said light with the second wavelength from said light-absorbing area.

2. (Currently Amended) The apparatus of claim 1, ~~wherein~~ further comprising a holder capable of ~~[[for]]~~ holding said point light source at a first end thereof and holding said photodetector at a second end thereof opposite said first end.

3. (Original) The apparatus of claim 1, wherein said object is placed at a focal position of said lens.

4. (Currently Amended) The apparatus of claim 1, wherein said point light source comprises ~~includes~~ a light emitting diode.

5. (Currently Amended) The apparatus of claim 1, wherein said photodetector is capable of generating ~~generates~~ a response current in response to said reflected light from said target area of said object.

6. (Currently Amended) The apparatus of claim 5, wherein said photodetector comprises one or more of the following ~~is selected from a group consisting of~~ a photodiode, a charge-coupled device, or ~~[[and]]~~ a complex metal oxide semiconductor sensor, or combinations thereof.

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended) The apparatus of claim 1 ~~[[7]]~~, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said test strip.

10. (Currently Amended) The apparatus of claim 9, further comprising means ~~wherein said test strip is used~~ for monitoring a concentration of glucose in a blood sample.

11. (Currently Amended) The apparatus of claim 9, further comprising means ~~wherein said test strip is used~~ for monitoring a concentration of cholesterol in a blood sample.

12. (Currently Amended) An apparatus with a combination of a point light source and a single lens, comprising:

a holder;

a point light source, disposed at a first end of said holder;

a photodetector, disposed at a second end of said holder opposite said first end, said first end and said second end formed on the same side of said holder; and

a lens, disposed at the same side of said point light source and said photodetector, said lens capable of focusing in order that a light emitting from said point light source through said lens is focused onto a[[n]] target area of an object placed at a focal position of said lens, and capable of focusing a reflected light from said target area of said object is focused onto said photodetector through said lens.

13. (Currently Amended) The apparatus of claim 12, wherein said point light source ~~comprises~~ includes a light emitting diode.

14. (Currently Amended) The apparatus of claim 12, wherein said photodetector is capable of generating ~~generates~~ a response current in response to said reflected light from said target area of said object.

15. (Currently Amended) The apparatus of claim 14, wherein said photodetector comprises one or more of the following is selected from a group consisting of a photodiode, a charge-coupled device, or [[and]] a complex metal oxide semiconductor sensor, or combinations thereof.

16. (Currently Amended) The apparatus of claim 12, wherein said object comprises ~~includes~~ a test strip comprising ~~having~~ a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

17. (Currently Amended) The apparatus of claim 16, wherein said point light source is capable of radiating ~~radiates~~ a light with a first wavelength and a light with a second wavelength, ~~said light with the first wavelength absorbed by said tested solution contained in said light-~~

~~absorbing area of said test strip is capable of absorbing said light with the first wavelength, wherein a sampling amount of said tested solution is determined in accordance with the reflectance of said light with the first wavelength from said light-absorbing area, and said light with the second wavelength absorbed by said light-absorbing area occurring in response to said specific component of said tested solution is capable of absorbing said light with the second wavelength, wherein a content of said specific component is determined in accordance with the reflectance of said light with the second wavelength from said light-absorbing area.~~

18. (Original) The apparatus of claim 16, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said test strip.

19. (Currently Amended) The apparatus of claim 18, further comprising means wherein said test strip is used for monitoring a concentration of glucose in a blood sample.

20. (Currently Amended) The apparatus of claim 18, further comprising means wherein said test strip is used for monitoring a concentration of cholesterol in a blood sample.

21. (New) An apparatus, comprising:
means for emitting a point of light onto a target area of an object;
means for detecting a reflected light from said target area of said object;
means for focusing said point of light onto said target area of said object and for focusing said reflected light onto said means for detecting, wherein said means for focusing is positioned to the same side of said means for emitting and said means for detecting; and
means for holding said means for emitting and said means for detecting, wherein said means for emitting is located at a first end of said means for holding, and wherein said means for detecting is located opposite said first end at a second end of said means for holding.

22. (New) The apparatus of claim 21, wherein said object is placed at a focal position of said means for focusing.

23. (New) The apparatus of claim 21, wherein said means for emitting comprises a light emitting diode.

24. (New) The apparatus of claim 21, wherein said means for detecting is capable of generating a response current in response to said reflected light.

25. (New) The apparatus of claim 24, wherein said means for detecting comprises one or more of the following a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

26. (New) The apparatus of claim 21, wherein said object comprises a test strip comprising a light-absorbing area capable of occurring in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

27. (New) The apparatus of claim 26, wherein said point light source is capable of radiating a light with a first wavelength and a light with a second wavelength, said tested solution contained in said light-absorbing area of said test strip is capable of absorbing said light with the first wavelength, and said light-absorbing area is capable of absorbing said light with the second wavelength.

28. (New) The apparatus of claim 26, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said test strip.

29. (New) The apparatus of claim 28, further comprising means for monitoring a concentration of glucose in a blood sample.

30. (New) The apparatus of claim 28, further comprising means for monitoring a concentration of cholesterol in a blood sample.

31. (New) A method, comprising:

emitting a point of light onto a target area of an object via a point light source located at a first end of a holder;

detecting a reflected light from said target area of said object via a photodetector located opposite said first end at a second end of said holder; and

focusing said point of light onto said target area of said object and for focusing said reflected light onto said photodetector via a lens positioned to the same side of said point light source and said photodetector.

32. (New) The method of claim 31, further comprising placing said object at a focal position of said lens.

33. (New) The method of claim 31, wherein said emitting a point of light onto a target area of an object via a point light source comprises emitting a point of light onto a target area of an object via a point light source comprising a light emitting diode.

34. (New) The method of claim 31, further comprising generating a response current in response to said reflected light via said photodetector.

35. (New) The method of claim 34, wherein said detecting a reflected light from said target area of said object via a photodetector comprises detecting a reflected light from said target area of said object via a photodetector comprising one or more of the following a photodiode, a charge-coupled device, or a complex metal oxide semiconductor sensor, or combinations thereof.

36. (New) The method of claim 31, further comprising producing a light-absorbing area on said object in response to a specific component of a tested solution contacting therewith and capable of absorbing said light emitting from said point light source.

37. (New) The method of claim 36, further comprising radiating a light with a first wavelength and a light with a second wavelength via said point light source, absorbing said light with the first wavelength via said tested solution contained in said light-absorbing area of said object, and absorbing said light with the second wavelength via said light-absorbing area.

38. (New) The method of claim 36, wherein said specific component of said tested solution to be detected depends on an enzyme system contained in said object.

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39. (New) The method of claim 38, further comprising monitoring a concentration of glucose in a blood sample.

40. (New) The method of claim 38, further comprising monitoring a concentration of cholesterol in a blood sample.

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